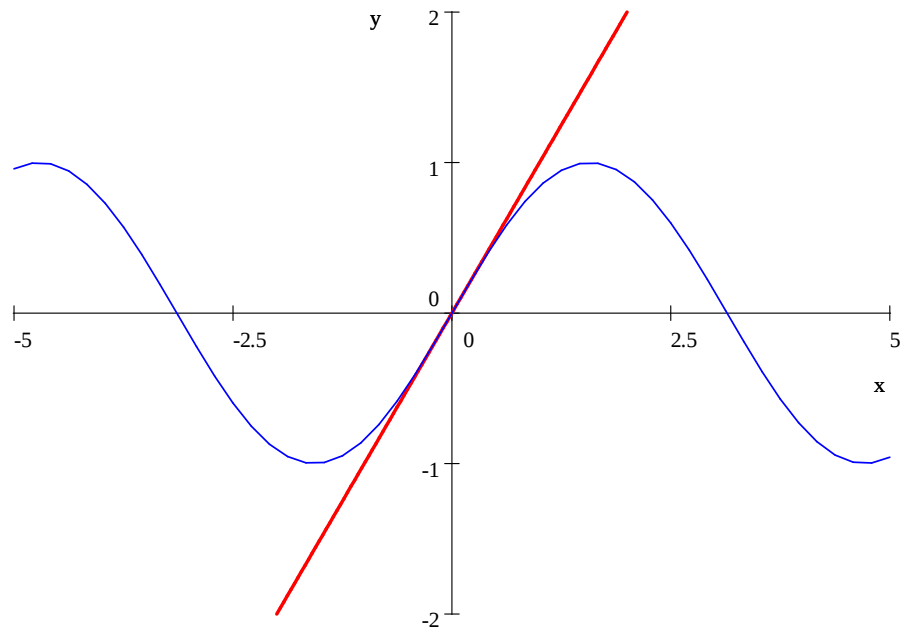
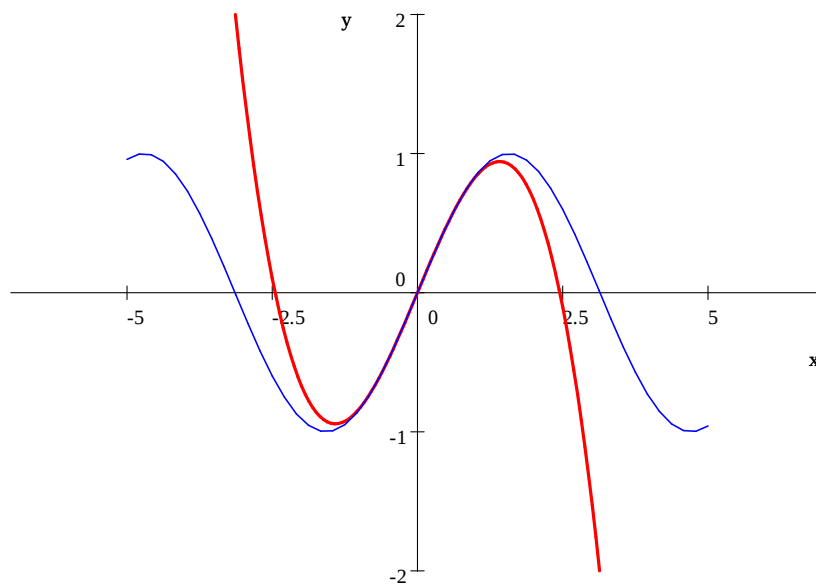


## Die Taylorreihenentwicklung von $\sin(x)$

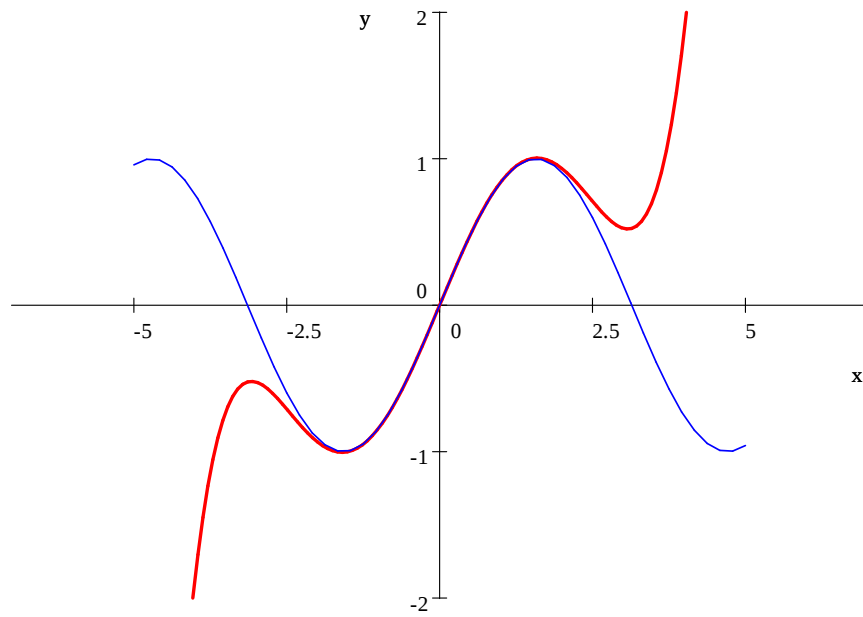
$$\sin(x) \approx x$$



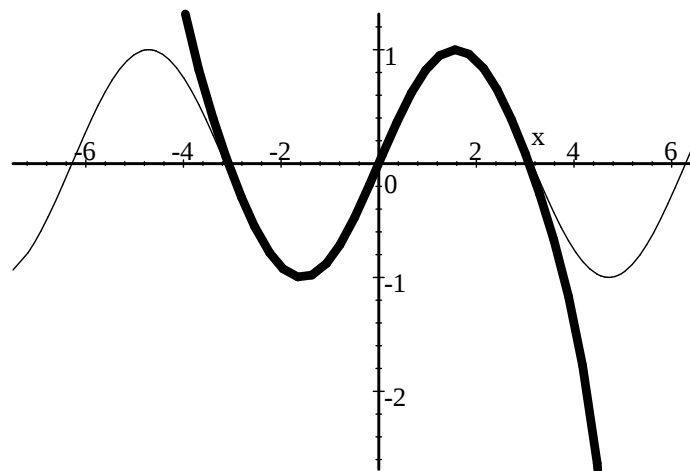
$$\sin(x) \approx x - \frac{1}{6}x^3$$



$$\sin(x) \approx x - \frac{1}{6}x^3 + \frac{1}{120}x^5$$



$$\sin(x) \approx x - \frac{1}{6}x^3 + \frac{1}{120}x^5 - \frac{1}{5040}x^7$$



$$\sin(x) \approx x - \frac{1}{6}x^3 + \frac{1}{120}x^5 - \frac{1}{5040}x^7 + \frac{1}{362880}x^9 - \frac{1}{39916800}x^{11} + \frac{1}{6227020800}x^{13} - \frac{1}{1307674368000}x^{15}$$

